

CLAIMS

What is claimed:

Sub A2 } 1. A method for treating or preventing a tumor necrosis factor-mediated disease in
5 an individual in need thereof comprising co-administering methotrexate and a
TNF α antagonist to said individual, in therapeutically effective amounts.

2. A method of Claim 1 wherein said TNF α antagonist and methotrexate are
administered simultaneously.

3. A method of Claim 1 wherein said TNF α antagonist and methotrexate are
administered sequentially.

Sub A3 } 10 4. A method of Claim 1 wherein the tumor necrosis factor-mediated disease is
selected from the group consisting of: autoimmune disease, acute or chronic
immune disease, inflammatory disease and neurodegenerative disease.

15 5. A method of Claim 4 wherein said TNF α antagonist is administered in multiple
doses.

15 6. A method of Claim 1 wherein said TNF α antagonist prevents or inhibits TNF α
synthesis or TNF α release.

7. A method of Claim 6 wherein said TNF α antagonist is a phosphodiesterase
inhibitor.

20 8. A method of Claim 7 wherein said phosphodiesterase inhibitor is selected from
the group consisting of: pentoxifylline and rolipram.

9. A method of Claim 6 wherein said TNF α antagonist is selected from the group
consisting of: thalidomide and tenidap.

10. A method of Claim 6 wherein said TNF α antagonist is selected from the group consisting of: a A2b adenosine receptor agonist and a A2b adenosine receptor enhancer.
11. A method of Claim 5 wherein said TNF α antagonist is an anti-TNF α antibody or antigen-binding fragment thereof.
5
12. A method of Claim 11 wherein said anti-TNF α antibody or antigen-binding fragment is a chimeric antibody or chimeric fragment, wherein said chimeric antibody or chimeric fragment comprises a non-human variable region specific for TNF α or an antigen-binding portion thereof and a human constant region.
- 10 13. A method of Claim 12 wherein said chimeric antibody binds to one or more epitopes included in amino acid residues set forth in SEQ ID NO:1 or SEQ ID NO:2.
14. A method of Claim 13 wherein said chimeric antibody competitively inhibits binding of TNF α to monoclonal antibody cA2.
- 15 15. A method of Claim 13 wherein said chimeric antibody is monoclonal antibody cA2.
16. A method of Claim 11 wherein said anti-TNF α antibody is a humanized antibody or antigen-binding fragment thereof.
17. A method of Claim 16 wherein said humanized antibody binds to one or more epitopes included in amino acid residues set forth in SEQ ID NO:1 or SEQ ID NO:2.
20
18. A method of Claim 11 wherein said anti-TNF α antibody is a resurfaced antibody or antigen-binding fragment thereof.
19. A method of Claim 18 wherein said resurfaced antibody binds to one or more epitopes included in amino acid residues set forth in SEQ ID NO:1 or SEQ ID NO:2.
25

20. A method of Claim 5 wherein said TNF α antagonist is a soluble TNF α receptor or functional portion thereof.

21. A method of Claim 20 wherein said soluble TNF α receptor is selected from the group consisting of: p55 TNF α receptor and p75 TNF α receptor.

5 22. A method of Claim 20 wherein said soluble TNF α receptor is a TNF α receptor multimeric molecule.

23. A method of Claim 20 wherein said soluble TNF α receptor is a TNF α receptor immunoreceptor fusion molecule.

10 24. A method for treating or preventing arthritis in an individual in need thereof comprising co-administering methotrexate and a TNF α antagonist to said individual, in therapeutically effective amounts.

25. A method of Claim 24 wherein said TNF α antagonist and methotrexate are administered simultaneously.

15 26. A method of Claim 24 wherein said TNF α antagonist and methotrexate are administered sequentially.

27. A method of Claim 24 wherein said TNF α antagonist is administered in multiple doses.

28. A method of Claim 24 wherein said TNF α antagonist prevents or inhibits TNF α synthesis or TNF α release.

20 29. A method for treating or preventing rheumatoid arthritis in an individual in need thereof comprising co-administering methotrexate and a TNF α antagonist to said individual, in therapeutically effective amounts.

30. A method of Claim 29 wherein said TNF α antagonist and methotrexate are administered simultaneously.

31. A method of Claim 29 wherein said TNF α antagonist and methotrexate are administered sequentially.
32. A method of Claim 29 wherein said TNF α antagonist is administered in multiple doses.
- 5 33. A method of Claim 29 wherein said TNF α antagonist prevents or inhibits TNF α synthesis or TNF α release.
34. A method for treating or preventing Crohn's disease in an individual in need thereof comprising co-administering methotrexate a TNF α antagonist to said individual, in therapeutically effective amounts.
- 10 35. A method of Claim 34 wherein said TNF α antagonist and methotrexate are administered simultaneously.
36. A method of Claim 34 wherein said TNF α antagonist and methotrexate are administered sequentially.
- 15 37. A method of Claim 34 wherein said TNF α antagonist is administered in multiple doses.
38. A method of Claim 34 wherein said TNF α antagonist prevents or inhibits TNF α synthesis or TNF α release.